

Name: KEY
Date: KEY

Teacher: KEY
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NEWTON'S LAWS WORKSHEET - KEY

I. NEWTON'S FIRST LAW OF MOTION

1. Newton's first law of motion is also known as the LAW OF **INERTIA**.
2. Newton's first law says that
 - a. an object that IS NOT MOVING, or is at **AT REST** will stay at **AT REST AND**
 - b. an object that IS MOVING will keep moving with constant **VELOCITY** which means at the same **SPEED** and in the same **DISTANCE UNLESS**
 - c. an **OUTSIDE** force acts on that object.
3. What is inertia?
The resistance of any physical object to any change in its state of motion
4. What property of an object determines how much inertia it has?
Mass
5. Which of the following has more inertia?
 - a. Bowling ball or Tennis ball
 - b. Hammer or Feather
6. When traveling in a car and turning to the right, which way does your body go and why?
Imagine that you are a passenger in a car which is making a right-hand turn. As the car begins to take the turn to the right, you often feel as though you are sliding to the left. The car is turning to the right due to the inward force, yet you feel as though you are being forced leftward or outward. In actuality, the car is beginning its turning motion (to the right) while you continue in a straight line path.

II. NEWTON'S SECOND LAW OF MOTION

7. Newton's second law of motion is also known as the LAW OF **ACCELERATION**
8. Newton's second law says that when an **UNBALANCED** force is applied to a **MASS (OBJECT)**, it causes it to **ACCELERATE**.
9. The greater the force that is applied, the **GREATER** the acceleration.
10. The lesser the force that is applied, the **LESSER** the acceleration.
11. If the same force is applied to an object with a large mass, it will have a **LESSER** acceleration.
12. If the same force is applied to an object with a small mass, it will have a **GREATER** acceleration.
13. The equation that is used to solve second law problems is **$F = ma$** .
 - a. What does each of the variables mean?
F = FORCE **m = MASS** **a = ACCELERATION**
 - b. What unit of measurement must be used with each variable?
F = kg m/s² (N - Newton) **m = kg** **a = m/s²**

Answer Key Newton Third Law

JL Elias



Answer Key Newton Third Law:

Decoding **Answer Key Newton Third Law**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Answer Key Newton Third Law**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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